



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
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James W. Carter  
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FACSIMILE COVER SHEET

DATE: JUNE 27, 1997

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 4

TO: NEAL MORTENSEN NEIL SIMMONS  
WESTERN CLAY COMPANY BLM - PRICE

FAX NUMBER: 801 529 3714 801 636 3657

FROM: TONY GALLEGOS PHONE 801 538 5267

Minerals Reclamation and Development Program

PHONE: (801) 538-5291

FAX: (801) 359-3940

SUBJECT: M/015/072 HEBE GYPSUM MINE  
(UTU-73779 LONG TRUSS WEDGE GYPSUM MINE)

REMARKS: HERE IS: (1) SCHEDULE OF ACREAGE DISTURBED & RECLAIMED,  
AND (2) THE CURRENT DIVISION RECLAMATION ESTIMATE.  
BOTH DOCUMENTS WERE REVISED TODAY AFTER MY CONFERENCE  
CALL WITH WESTERN.

I WOULD LIKE TO REVIEW & DISCUSS THESE DOCUMENTS  
WITH YOU SOMETIME ON MONDAY MORNING JULY 30.

Should you encounter any problems with this copy, or do not receive all the pages, please call

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## TRANSACTION REPORT

P. 01

JUN-27-97 FRI 03:24 PM

SEND (M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-27	03:20 PM	18015293714	3' 05"	4	SEND	( M) OK	038	
TOTAL			3M	5S	PAGES:	4		



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DATE: JUNE 27, 1997NUMBER OF PAGES INCLUDING THIS COVER SHEET: 4

TO:

NEAL MORTENSENNEAL SIMMONSWESTERN CLAY COMPANYBLM - PRICEFAX NUMBER: 801 529 3714801 636 3657

FROM:

TONY GALLEGOSPHONE 801 538 5267Minerals Reclamation and Development Program

## TRANSACTION REPORT

P. 01

JUN-27-97 FRI 03:19 PM

SEND (M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-27	03:17 PM	18016363657	2'23"	4	SEND	( M) OK	037	
TOTAL				2M 23S	PAGES:	4		



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FAX NUMBER:

801 529 3714801 636 3657

FROM:

TONY GALLEGOS PHONE 801 538 5267Minerals Reclamation and Development Program

filename m15-72lf.wb2

## Emery County

last revisio

06/27/97

#### DIVISION NOTES:

-Current total disturbance is 4.95 acres of mining area & 2.64 acres of road in BLM ROW [total = 7.59 acres]

-Maximum BLM road ROW is for 8,200 ft x 30 ft = 5.65 acres; 3.01 acres more allowed in current ROW

-Western is amending ROW to add turn arounds at each end of the road which will increase the ROW by 1.52 acres

-This table includes 3.01 & 1.52 acres as new road disturbances in the 4th quarter of 1997

**-Note: 4th quarter 1997 new road = 3.01 + 1.52 = 4.53 acres**

**-Note: the 10.78 acres of new mine in 1997 4th Q included the 4.95 acres of SMO disturbance**

**-Note: the SMO 4.95 acres is shown here in 1996: 1997 4th Q new mine =  $(10.78 - 4.95) + 4.72$  mine road = 10.55**

Column "beginning disturbance" = disturbance existing at beginning of the year

-Column "total disturbed" = beginning disturbance + total new

-Column "adjusted total" = total disturbed - released this year

Year	Stage	Adjusted Total	Total Disturbed	Begin. Disturb.	Total New	New Road	New Mine	Reclaimed this year	Released in 3 yrs	Released in 2 yrs	Released in 1 yr	Released this year
1996			4.95		4.95		4.95					
1997	NOW	7.59	7.59	4.95	2.64	2.64						
1997	4th Q	22.67	22.67	7.59	15.08	4.53	10.55	1.64	1.64			
1998	1	31.67	31.67	22.67	9	0	9	2.83	2.83	1.64		
1999	1	40.36	40.36	31.67	8.69	0	8.69	5.91	5.91	2.83	1.64	
2000	2	48.72	50.36	40.36	10	0	10	13.88	13.88	5.91	2.83	1.64
2001	2	50.89	53.72	48.72	5	0	5	0	0	13.88	5.91	2.83
2002	2	49.2	55.11	50.89	4.22	0	4.22	13.36	13.36	0	13.88	5.91
2003	3	44.29	58.17	49.2	8.97	0	8.97	9.21	9.21	13.36	0	13.88
2004	3	50.29	50.29	44.29	6	0	6	0	0	9.21	13.36	0
2005	4	42.02	55.38	50.29	5.09	0	5.09	6.08	6.08	0	9.21	13.36
2006	4	37.72	46.93	42.02	4.91	0	4.91	8.17	8.17	6.08	0	9.21
2007	END MINE	41.84	41.84	37.72	4.12	0	4.12	0	0	8.17	6.08	0
2008		35.76	41.84	41.84	0	0	0	20.42	20.42	0	8.17	6.08
2009		27.59	35.76	35.76	0	0	0	0	0	20.42	0	8.17
2010		27.59	27.59	27.59	0	0	0	0	0	0	20.42	0
2011		7.17	27.59	27.59	0	0	0	0	0	0	0	20.42
2012		7.17	7.17	7.17	0	0	0	0	0	0	0	0
TOTALS					88.67	7.17	81.5	81.5	81.5	81.5	81.5	81.5

# RECLAMATION ESTIMATE

Western Clay Company

Hebe Gypsum Mine

M/015/072 (UTU-73779)

Prepared by Utah State Division of Oil, Gas & Mining

last revision

06/27/97

filename M15-72.WB2

page "ESTIMATE"

Emery County

-This estimate is for the entire life of mine disturbance

-There are no permanent structures or facilities at the mine site

-Ore is stockpiled within the active quarry areas which eliminates stockpile pads

-All surface drainages will be restored & culverts removed during final reclamation

-The main access road disturbance is included in a Right Of Way with the BLM

-This estimate includes reclamation costs for the access road within the ROW

-Overburden will be regraded into quarry excavations & graded to blend with the natural contours

-Cryptobiotic soils which were salvaged will be spread on the graded surface prior to seeding

-Endangered cacti will be located prior to mining & their seeds harvested

-Endangered cacti within the mine area will be transplanted to reclaimed areas

-All affected areas will be seeding by broadcast or drill seeding methods

-DOGM estimate of maximum disturbance is 58.17 acres with concurrent reclamation schedule

-Amount of disturbed area which will receive reclamation treatments = 88.7 acres

-Estimated total disturbed area for this mine = 88.7 acres

Activity	Quantity	Units	\$/unit	\$	
Safety gates, signs, etc. (mtls & installation)	1	sum	200	200	(1)
Equipment removal - trucking	5	trips	58	290	(2)
Debris removal - dump fees	30	CY	6	180	(3)
Debris & equipment removal - loading with FE loader	4	hours	166	664	(4)
Demolition & debris removal - general labor	8	hours	32	256	(5)
Regrading facilities areas	1.0	acre	496	496	(6)
Replacing overburden	132,454	CY	0.31	41,061	(7)
Regrading for soil placement - 50% of mine area	40.8	acre	397	16,178	(8)
Ripping access roads within mine area - dozer	3.0	acre	347	1,041	(9)
Replacing soils on mine access roads - dozer	3.0	acre	397	1,191	(8)
Ripping access road - ROW	7.2	acre	544	3,900	(10)
Regrading access road - ROW	7.2	acre	397	2,846	(8)
Cacti survey	3	year	500	1,500	(11)
Cacti transplanting	750	plant	16	12,000	(12)
Cacti seed harvesting	5	year	1000	5,000	(13)
Cacti storage treatment & handling	2	year	500	1,000	(14)
Drainage restoration & culvert removal - west 42" dia	50	CY	3.06	153	(15)
Drainage restoration & culvert removal - west 12" dia	8	CY	3.06	24	(15)
Drainage restoration & culvert removal - east 36" dia & fill	450	CY	3.40	1,530	(16)
Replacing cryptogamic soil - mechanical spreader	2,000	CY	2.77	5,540	(17)
Broadcast seeding (~28 lb/acre)	10.0	acre	180	1,800	(18)
Drill seeding (~14 lb/acre)	71.5	acre	125	8,938	(19)
Drill seeding (~14 lb/acre) -ROW road area	7.2	acre	125	896	(19)
General site cleanup & trash removal - 40% of total area	32.6	acre	50	1,630	(20)
Equipment mobilization - Salina - ~60 miles	4	equip	600	2,400	(21)
Reclamation Supervision - 1/2 total project days	13	days	356	4,628	(22)
		Subtotal		115,343	
10% Contingency				11,534	
		Subtotal		\$126,877	
Escalate for 5 years at 2.52% per yr				16,813	
		Total		\$143,690	
Rounded surety amount in yr 2002-\$				\$143,700	

Average cost per disturbed acre =

\$1,620

Average cost per disturbed acre =

Rounded surety amount in yr 2002-\$

**\$143,700**

\$1,620

## RECLAMATION ESTIMATE

Western Clay Company

Hebe Gypsum Mine

M/015/072

last revision

06/26/97

filename M15-72.WB2

page "ESTIMATE"

Emery County

Prepared by Utah State Division of Oil, Gas & Mining

### NOTES ON UNIT COSTS USED

- (1) DOGM lump sum assumed
- (2) Means 1997, 020-620-5100, \$0.48/mile for >8CY truck; assumed 120 miles round trip
- (3) Means 1997, 020-612-0320, avg, bldg construction mtl, \$6/CY
- (4) Rental Rate Blue Book 4/96, Cat 988B, 7CY, & Means 1997, Crew B-10U
- (5) Means 1997, Crew A-1A, general laborer including O&P \$32.17/hr
- (6) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, mtl 2550 lb/CY, 100 ft push, assumes 1 ft dept
- (7) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, mtl 2550 lb/CY, 100 ft push
- (8) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, mtl 2550 lb/CY, 75 ft push, assumes 1 ft depth
- (9) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, multi shank rippers, speed 0.8 mph
- (8) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, mtl 2550 lb/CY, 75 ft push, 1 ft depth
- (10) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, multi shank rippers, speed 0.5 mph
- (8) Means 1997 & Rental Rate Blue Book 4/96: Cat D10N, U, mtl 2550 lb/CY, 75 ft push, 1 ft depth
- (11) lump sum estimated for surveys during first 3 years
- (12) estimate 1/2 hr/ plant, Means 1997, Crew A-1A, general laborer including O&P \$32.17/hr
- (13) assumed annual sum for harvesting during first 5 years
- (14) assumed annual sum assumed for first 2 yrs, assumed direct transplant after that
- (15) Means 1997, 022-254-0120, 1CY hydraulic backhoe, 4' - 6' deep
- (15) Means 1997, 022-254-0120, 1CY hydraulic backhoe, 4' - 6' deep
- (16) Means 1997, 022-254-0910, 1CY hydraulic backhoe, 10' - 14' deep
- (17) Means 1997, 029-208-0300 plant bed preparation, skid steer loader, on site topsoil
- (18) DOGM estimate: seed \$175/acre + truck-broadcaster-operator \$5/acre; 10 acres/hr
- (19) DOGM estimate: seed \$90/acre + tractor-drill-operator \$35/acre
- (19) DOGM estimate: seed \$90/acre + tractor-drill-operator \$35/acre
- (20) DOGM general estimate
- (21) estimated \$300 each way per piece of equipment
- (22) Means 1997, 010-036-0180, project manager, minimum \$1780/wk